KF-AR joint RMSE vs. Process Noise Variance **KF-AR joint: CSM** 50 0.7 40 0.75 RMSE 30 8.0 20 10 0.85 10⁻⁸ 10⁻⁴ 10⁻⁶ **Process Noise Variance KF-AR joint: TPPSM** 0.7 60 50 0.75 RMSE 40 30 8.0 20 0.85 10 10⁻⁸ 10⁻⁶ 10⁻⁴ Process Noise Variance